

## FIGURE 1A

### CHIR 12.12 light chain:

leader:

MALPAQLLGLLMLWVSGSSG

variable:

DIVMTQSPLSLTVTPGEPASISCRSSQSLLYSNGNYLDWYLQKPGQSPQVLISLGSNRASGV  
VPDRFSGSGSGTDFTLKISRVEAEDVGYYCMQARQTPFTFGPGTKVDIR

constant:

RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSK  
DSTYSSLSLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

## FIGURE 1B

### CHIR-12.12 heavy chain:

leader:

MEFGLSWVFLVAILRGVQC

variable:

QVQLVESGGVVQPGRLRLSCAASGFTFSYGMHWVRQAPGKGLEWVAVISYEESNRYHAD  
SVKGRFTISRDNSKITLYLQMNSLRTEDTAVYYCARDGGIAAPGPDYWGQGTLVTVSS

constant:

A<sup>1</sup>STKGPSVFPLAPASKSTSGGTAA<sup>1</sup>LGCLVKDYFPEPVTWSWN<sup>1</sup>GALTSGVHTFP<sup>1</sup>AVLQSSGL  
Y<sup>2</sup>SLSSVVTVPSSSLGTQTYICNVN<sup>2</sup>HKP<sup>2</sup>NTKVDKRVEPKSCDKTHTC<sup>2</sup>PPCP<sup>2</sup>AP<sup>2</sup>ELLGGPSVF  
LF<sup>3</sup>PPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHN<sup>3</sup>AKTKP<sup>3</sup>REEQYNSTYR<sup>3</sup>V  
SV<sup>4</sup>LTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQV<sup>4</sup>SL  
T<sup>5</sup>CLVKGFYPSDIAVEWESNGQPENNYK<sup>5</sup>TTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSC<sup>5</sup>SV  
MHEALHNHYTQ<sup>6</sup>KSLSLSPGK

alternative constant region:

A<sup>1</sup>STKGPSVFPLAPSSKSTSGGTAA<sup>1</sup>LGCLVKDYFPEPVTWSWN<sup>1</sup>GALTSGVHTFP<sup>1</sup>AVLQSSGL  
Y<sup>2</sup>SLSSVVTVPSSSLGTQTYICNVN<sup>2</sup>HKP<sup>2</sup>NTKVDKRVEPKSCDKTHTC<sup>2</sup>PPCP<sup>2</sup>AP<sup>2</sup>ELLGGPSVF  
LF<sup>3</sup>PPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHN<sup>3</sup>AKTKP<sup>3</sup>REEQYNSTYR<sup>3</sup>V  
SV<sup>4</sup>LTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQV<sup>4</sup>SL  
T<sup>5</sup>CLVKGFYPSDIAVEWESNGQPENNYK<sup>5</sup>TTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSC<sup>5</sup>SV  
MHEALHNHYTQ<sup>6</sup>KSLSLSPGK

**Title:** USE OF ANTAGONIST ANTI-CD40 ANTIBODIES FOR TREATMENT OF AUTOIMMUNE AND INFLAMMATORY DISEASES AND ORGAN TRANSPLANT REJECTION  
**Inventor(s):** Long et al.  
**Application No:** To Be Assigned  
**Atty Dkt No:** 035784/309941

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## **FIGURE 2A**

## DNA sequence of light chain of CHIR-12.12:

5'atggcgctccctgctagctcctggggctgctaattgtctgggtctggatccagtggggatattgtatgactcagtcactccacttc  
cctgaccgtcacccctggagagccggccatcctgcaggccagtcagagccctcttatagtaatggataacaactattggatt  
gtacacctcagaagccaggcagtcctccacaggcctgatctttgggtctaattggccctccgggtccctgacaggcgtcgtggca  
gtggatcaggcacagatttacactgaaaatcagcagagtgaggctgaggatgtgggttattactgcacgactcgacaaact  
ccattcacttcggccctggaccCAAAGTggatcatcagacgaactgtggctgcaccatctgtttcatctccggccatctgatgagcagt  
tggaaatctggaaactgcctctgttgtgcctgctgaataacttctatcccagagaggccAAAGTcagtgaaagggtggataacgcctcc  
aatcgggtAACTCCAGAGAGTGTcacaGAGCAGGACAGCACCTACAGGCTCAGCAGCACCCTGACGCTGAGCAA  
AGCAGACTACGAGAAACACAAAGTcACGCCTGCAGAGTCACCCATCAGGGCTGAGCTGCCGTACAAGAGCTAACAGGG  
GAGAGTGTGAG3'

## **FIGURE 2B**

### DNA sequence of heavy chain of CHIR-12.12 (including introns):

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## FIGURE 3A

### CHIR-5.9 light chain:

leader:

MALLAQILLGLLMLWVPGSSG

variable:

AIVMTQPPPLSSPVTLGQPASISCRSSQSLVHSDGNTYLNWLQQRPGQPPRLLIYKFFRLSG  
VPDRFSGSGAGTDFTLKISRVEAEDVGVYYCMQVTQFPHTFGQGTRLEIK

constant:

RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSK  
DSTYSLSSLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

## FIGURE 3B

### CHIR-5.9 heavy chain:

leader:

MGSTAILALLLAVLQGVCA

variable:

EVQLVQSGAEVKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIYIPGDSDTRYSP  
SFQGQVTISADKSISTAYLQWSSLKASDTAMYCCARGTAAGRDIYYYYGMDVWGQGTTVTVS  
S

constant:

ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTVWSNSGALTSGVHTFPAPVLQSSGL  
YSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPEELLGGPSVF  
LFPPKPKDITLMSIRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTPREEQYNSTYRVV  
SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPVYTLPPSREEMTKNQVSL  
TCLVKGFYPSDIAVEWESNGQPENNYKTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSV  
MHEALHNHYTQKSLSLSPGK

alternative constant region:

ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVWSNSGALTSGVHTFPAPVLQSSGL  
YSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPEELLGGPSVF  
LFPPKPKDITLMSIRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTPREEQYNSTYRVV  
SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPVYTLPPSREEMTKNQVSL  
TCLVKGFYPSDIAVEWESNGQPENNYKTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSV  
MHEALHNHYTQKSLSLSPGK

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## FIGURE 4A

Coding sequence for short isoform of human CD40:

```
1 atggttcgtc tgcctctgca gtgcgtccctc tggggctgtct tgctgaccgc tgccatcca
61 gaaccaccca ctgcattgcag agaaaaaacag tacctaataa acagtcagtctt cttgcgttgc
121 tgccagccag gacagaaact ggtgagtgac tgcacagagt tcactgaaac ggaatgcctt
181 ccttgcgggtg aaagcgaatt cctagacacc tggAACAGAG agacacactg ccaccagcac
241 aaatactgcg accccaacctt agggcttcgg gtccaggcaga agggcacctc agaaacagac
301 accatctgca ccttgtgaaga aggctggcac tgcacgatgtt aggcctgtga gagctgtgtc
361 ctgcaccgcgt catgctcgcc cggctttggg gtcaaggcaga ttgcacagg ggttctgtat
421 accatctgcg agccctgccc agtcggcttc ttctccaatg tgcacatctgc ttgcaaaaaa
481 tgtcaccctt ggacaaggcgc cccaggatcg gctgagagcc ctgggtggta tccccatcat
541 cttcgggatc ctgtttggca tcctcttggt gctggctttt atcaaaaagg tggccaagaa
601 gccaaccaaat aa
```

## FIGURE 4B

Encoded short isoform of human CD40:

```
1 mvrlplqcvl wgclltavhp epptacrekq ylinsqccsl cqpgqklvsd cteftetec1
61 pcgelefldt wnrethchqh kycdpnlglr vqqkgtsetd tictceegwh ctseacescv
121 lhrscspgfg vkqiavgsd ticepcpvgf fsnvssafeck chpwtrspgs aespaggdphh
181 lrdfvchplg aglyqkggqe anq
```

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## FIGURE 4C

Coding sequence for long isoform of human CD40:

```
1 atggttcgtc tgcctctgca gtgcgtcc tc tggggctgct tgctgaccgc tgtccatcca
 61 gaaccaccca ctgcatgcag agaaaaacag tacctaataa acagtcagtg ctgttcttg
121 tgccagccag gacagaaaact ggtgaggtgac tgcacagagt tcactgaaac ggaatgcctt
181 cttgcgggtg aaaggcgaatt cctagacacc tggAACAGAG agacacactg ccaccagcac
241 aaatactgcg accccaacctt agggcttcgg gtccagcaga agggcacctc agaaacagac
301 accatctgca cctgtgaaga aggctggcac tgcacagatg aggcctgtga gagctgtgtc
361 ctgeaccgc catgctcgcc cggcttggg gtcaagcaga ttgcataagg gggttctgtat
421 accatctgcg agccctgccc agtcggcttc ttctccaatg tgcacatctgc ttgcaaaaaa
481 tgcacccctt ggacaagctg tgagacaaa gacctggtg tgcaacaggc aggcacaaac
541 aagactgatg ttgtctgtgg tccccaggat cggctgagag ccctgggtt gatccccatc
601 atctcggga tcctgttgc catcctcttgc tgcgtggctt ttatcaaaaa ggtggccaag
661 aagccaaacca ataaggcccc ccacccaaag caggaacccc aggagatcaa tttcccgac
721 gatcttcctg gctccaacac tgctgctcca gtgcaggaga cttagatgg atgccaacccg
781 gtcacccagg aggatggcaa agagagtgcg atctcagtgc aggagagaca gtga
```

## FIGURE 4D

Encoded long isoform of human CD40:

```
1 mvrplqlqcvl wgclltavhp epptacrekq ylinsqccsl cqpgqklvsd cteftetec1
 61 pcgelefldt wnrethchqh kycdpnlgtr vqqkgtsetd tictceegwh ctseacescv
121 lhrscspgfg vkqiavgsd ticepcvgf fsnvssafek chpwtscetk dlvvqqagtn
181 ktdvvvcgpqd rlralvvipi ifgilfaill vlvfikkvak kptnkaphpk qepqeinfpd
241 dlpgsntaap vqetlhgcqp vtqedgkesr isvqerq
```

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## FIGURE 5

